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Division Waste Management

Section Superfund

Program IHS (IHS)

DocCat Facility



North Carolina Department of Environment and Natural Resources
Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

October 8, 2010

Mr. Andy Lucas
County Manager
1000 North First Street
Albemarle, North Carolina 28001

Subject: Pre-Regulatory Landfill Sites in Stanly County

Dear Mr. Lucas:

The General Assembly of North Carolina enacted Senate Bill 1492 which created a program to assess the public health and environmental hazards at landfill and dump sites that operated prior to 1983 and to develop and implement remedial action plans at sites requiring remediation. The Pre-Regulatory Landfill Unit (Unit) was created in the Inactive Hazardous Sites Branch (IHSB) to oversee these activities. The purpose of this letter is to make you aware of the sites identified in your county and to provide general guidance of relevant state statutes.

Based on the information obtained by the Unit, the sites listed below tentatively qualify under Senate Bill 1492.

<i>ID Number</i>	<i>Site Name</i>	<i>Site Address</i>
NONCD0000751	City of Albemarle Dump	Coble Avenue
NONCD0000571	Albemarle Dump	32311 Nanny Drive
NONCD0000567	Stanfield Dump	SR 1147
NONCD0000570	Norwood Dump	HWY 52
NONCD0000569	Oakboro Dump	12566 Greene Road
NONCD0000568	Aquadale Dump	SR 1953
NONCD0000566	Richfield Dump	State Street

Work at these sites may be performed using the Unit's resources or through local government actions. The Unit has prioritized the sites statewide based on their threat to public health and the environment and will perform assessments and implement remedial actions based on this priority. Local governments may opt to perform the work at any time under the guidance of the Unit. Reimbursement of local government costs may be available for assessments and remedial actions to abate an imminent hazard as funds are available. The conditions for reimbursement include approval of the assessment and remediation plan by the Unit and certified accounting of costs. A document, *IHSB Guidelines for Addressing Old Landfills & Dumps*, was developed to assist local governments and the Unit in this work. It is available on our web site, <http://portal.ncdenr.org/web/wm/sf/ihs/ihsoldlf>, for your review.

An additional purpose in notifying you of these sites is to provide information to assist in your responsibilities in the permitting of private drinking water wells. The General Assembly enacted legislation which required local health departments to implement programs for the permitting, inspecting, and testing of private drinking water wells by July 1, 2008. State well construction standards in 15A NCAC 2C require a minimum horizontal separation of 500 feet between a water supply well and a landfill or disposal site. More precise location information for the sites in your county may be requested from the Unit.

If you are aware of additional sites, have additional information on the identified sites, or need further information, please email me at analee.thornburg@ncdenr.gov or you can call Bruce Lefler at (919) 508-8463

Sincerely,

A handwritten signature in black ink that reads "Analee Thornburg". The script is cursive and fluid, with the first name and last name clearly legible.

Analee Thornburg
Pre-Regulatory Landfill Unit
Inactive Hazardous Sites Branch
Superfund Section

cc: Mr. Dennis Joyner, Health Director – 1000 N. First Street, Suite 3, Albemarle, NC 28001

County of Stanly
1000 North First Street, Suite 10
ALBEMARLE, NORTH CAROLINA
28001



April 19, 2007



Mr. Harold "Bud" McCarty
Branch Head, Hazardous Waste Section
Division of Waste Management, NCDENR
401 Oberlin Rt., Ste. 150
Raleigh, NC 27699-1646

Dear Mr. McCarty:

In response to your request for information leading to additional dump sites located on or near the Alcoa Badin Works Facility, I have had the attached map prepared that depicts various locations where potentially hazardous materials have been dumped. The sites as identified on the map are locations that have been reported to County Officials by current and previous employees of Alcoa or by individuals who participated in the dumping of the materials. Very few of these individuals are willing to be identified or provide affidavits as to the location or type of material dumped because of potential liability or loss of Company benefits.

Much of the material allegedly dumped at the various locations was put there prior to or during the developmental stages of EPA and State regulation. The material dumped at these locations may or may not be of the hazardous variety but based upon reports provided to county officials is the same or similar material that is currently being identified as requiring hazardous material handling procedures. One generalized area off Mountain View Church Road and Davis Drive has been reported as a dump site for steel drums filled with coal tar pitch.

There are two additional sites that have been reported that are not depicted on the map. These are the City of Albemarle Landfill on Stony Gap Road off Hwy 52 South of Albemarle and the old County Dump near Britthaven on Old Salisbury Road/ Bethany Road North of Albemarle. There have also been unconfirmed reports of waste disposal sites or dump locations in adjacent counties.

Stanly County does not have the staff, the resources, nor the expertise needed to sample, analyze and either confirm or deny the existence of hazardous materials at these sites. We respectfully request your assistance in addressing these needs.

Sincerely,


Jerry D. Myers, County Manager

cc: Commissioners

Attachment



Printed on Recycled Paper



North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor
William G. Ross Jr., Secretary

February 26, 2007

<SAL> <FIRST> <LAST>, County Manager
County of <MUNICIPALITY>
<ADDRESS>
<TOWN>, North Carolina <ZIP>

Subject: Assessment, Cleanup, and Redevelopment of Old Landfill Sites Within Your Jurisdiction

Dear <SAL> <LAST>:

Governor Easley released his proposed budget February 22, 2007. Included in the budget is a specific item I believe should be of interest to you from a fiscal, environmental and public health protection perspective.

There are approximately 700 old landfills statewide and <LANDFILL#> old landfills in your local area that closed before the State permitting system became effective. These landfills are listed on the Old Landfill Sites portion of the Inactive Hazardous Sites Inventory maintained by the Superfund Section, Division of Waste Management. Any person, including local governments, that arranged for disposal or disposed of waste in the landfills may be held liable for the cleanup of the site. I have attached a report that identifies the location of known old landfill sites in <COUNTY NAME> County that may have closed prior to 1983 and thus qualify for the program described in this letter.

The Division has surveyed old landfills in 47 counties. The results of the survey indicate reason for concern about potential public health and safety impacts of these sites if they are not addressed. Seventy percent of the sites surveyed had a school, church, residence, day care or drinking water source within 1000 feet. The Division has found 102 old landfills that have a drinking water well within 500 feet. Thirteen of the landfills surveyed have residences built over the old landfill. The cost of assessment and cleanup of these old landfill sites can be as high as several million dollars.

Governor Easley's budget establishes a partnership between the State and local governments to both clean up the old landfill sites and provide funding for redevelopment of the sites. Many are in prime locations for redevelopment opportunities. The Governor's budget proposes to pay for cleanup and redevelopment of these sites through a surcharge on disposal of solid waste. The funding mechanism is a fair one. It is based on the idea that those who use solid waste disposal facilities should share responsibility for cleanup of sites used for solid waste disposal in the past that may have been lawful at the time, but did not meet standards that we now know are necessary to protect public health and safety.

The proposed \$2.00 per ton disposal surcharge would apply to residential, commercial, industrial, and construction and demolition debris type waste that is either disposed at a landfill or passes through a transfer station for disposal out-of-state. The State would use revenue from the surcharge to contract for cleanup of the old landfill sites and to provide grants to local government for redevelopment. The funds could also be used across the state to clean up other hazardous substance disposal sites that have no viable responsible party.

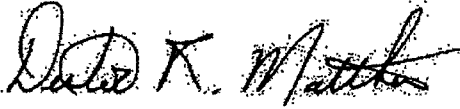
The only tool currently available to the State to ensure cleanup when it is needed is an enforcement action against those who owned, operated, or contributed to old landfills. The Governor's proposal would avoid placing an unreasonable

burden on any one local government and allow us to use our resources for actual cleanup rather than legal action. When old landfill sites were in use, North Carolina citizens, businesses, and industries benefited from their existence as a place to dispose of waste. The surcharge on waste disposal is a way for citizens, businesses, and industries to form a partnership for cleanup and redevelopment of these old landfill sites.

There is great interest this session of the General Assembly in strengthening requirements for landfills permitted in North Carolina. I encourage you to take a close look at legislation that will be introduced, specifically this initiative and what it can bring to your jurisdiction.

If you have questions regarding the program for clean-up of old landfills, please contact Jack Butler, Chief of the Superfund Section, at jack.butler@ncmail.net or call (919)508-8450.

Sincerely,

A handwritten signature in dark ink, appearing to read "Dexter R. Matthews". The signature is fluid and cursive, with the first name "Dexter" being more prominent.

Dexter R. Matthews, Director

cc: David Thompson, NCACC
Jack Butler, Chief – Superfund Section



North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor
William G. Ross Jr., Secretary

February 27, 2007

<SAL> <FIRST> <LAST>
<TITLE>, <MUNICIPALITY>
<ADDRESS>
<TOWN>, North Carolina <ZIP>

Subject: Assessment, Cleanup, and Redevelopment of Old Landfill Sites Within Your Jurisdiction

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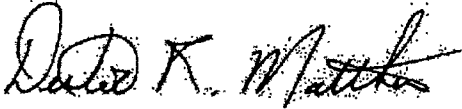
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burden on any one local government and allow us to use our resources for actual cleanup rather than legal action. When old landfill sites were in use, North Carolina citizens, businesses, and industries benefited from their existence as a place to dispose of waste. The surcharge on waste disposal is a way for citizens, businesses, and industries to form a partnership for cleanup and redevelopment of these old landfill sites.

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If you have questions regarding the program for clean-up of old landfills, please contact Jack Butler, Chief of the Superfund Section at jack.butler@ncmail.net or (919) 508-8450.

Sincerely,

A handwritten signature in dark ink, appearing to read "Dexter R. Matthews". The signature is fluid and cursive, with the first name "Dexter" being more prominent.

Dexter R. Matthews, Director

cc: Ellis Hankins, NCLM
Jack Butler, Chief – Superfund Section

The mailing list for these letters is filed in a folder in the first file cabinet drawer for the old landfill sites.

A statewide Old Landfill Inventory report is filed in a folder in the first file cabinet drawer for the old landfill sites.

Subject: Old Landfills

From: "Irene Huneycutt" <HHuneycutt@co.stanly.nc.us>

Date: Tue, 22 Feb 2005 15:29:43 -0500

To: <Cheryl.Marks@ncmail.net>

In response to your letter dated 2/1/05, The City of Albemarle or The Solid Waste Dept. were not able to find any additional information on old unlined landfills. If you should need your information returned by mail please let me know and I will send it back.

Jerry Morton
Director of Solid Waste

Irene Huneycutt
Adm. Support Solid Waste

E-mail correspondence to and from this address may be subject to the North Carolina Public Records Laws and may be disclosed to third parties



North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor

William G. Ross Jr., Secretary

February 1, 2005

Mr. Jerry D. Myers
County Manager
201 South Second Street
Albemarle, North Carolina 28001

Re: Request for Information on old unlined landfills, Stanly County.

Dear Mr. Myers,

The Division of Waste Management, Superfund Section, Inactive Hazardous Sites Branch (Branch) is in the process of cataloging old landfills in the state. This letter is being sent to you to solicit your cooperation in providing information on old unlined landfills that are not subject to Division of Waste Management, Solid Waste Section post-closure regulations in your county. This process is a part of a statewide effort to accurately inventory old dumpsites to aid in safe reuse and to protect public health and the environment.

Once an old landfill site has been identified, the site location, site usage, and vicinity usage is researched. Potential hazards to the public and the environment are then evaluated by risk assessment. Sites then are reviewed based on risk and/or by safe redevelopment requests.

The Branch then works with owners and responsible parties on final solutions for containment of the waste and to ensure safe reuse of the old landfill sites. Safe reuse might involve engineering controls to prevent exposure to wastes, if necessary, and restrictive covenants limiting the property to certain uses and setting conditions for construction or other soil disturbing activities. Annual reporting that restrictive covenants remain in place will be a duty of the current owner.

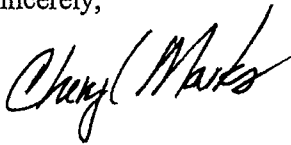
Known old landfills/dump sites are maintained in a database. Attached is a listing of known sites located in your county. Available information that may include location and years of operation information for each site is also listed. Please review the list and verify or provide information that will more accurately characterize the site(s). If you have knowledge of sites not included on the list, please add the additional sites along with location information, directions, years of operation, and any additional notable information.

Please return the list and any additional information within 90 days to:

Cheryl Marks
Inactive Hazardous Sites Branch
Superfund Section
NC Division of Waste Management
401 Oberlin Road - Suite 150
Raleigh, NC 27605-1350

Or you may email me with your response at Cheryl.Marks@ncmail.net or call with any questions concerning this request at (919) 733-2801, extension 283. Thank you for your cooperation.

Sincerely,

A handwritten signature in black ink that reads "Cheryl Marks". The signature is written in a cursive, flowing style.

Cheryl Marks, Hydrogeologist
Inactive Hazardous Site Branch
NC Superfund Section

Old Landfill Inventory - Location Information

Latitude/Longitude and other data in this report is highly subject to inaccuracies. State Plane coordinates replace latitude/longitude entries as data is collected. These coordinates may also be subject to error.

COUNTY: STANLY

Site Name:	ALBEMARLE DUMP	In IHS Inventory?	No
ID Number:	NONCD0000571	Other Agency Lead	
Site Address:	SR 1422	NFA or NFA-Restricted Use?	No
City:	ALBERMARLE	Unable to Locate	<input type="radio"/>
State Plane X:		Latitude:	35.3835
State Plane Y:		Longitude:	-80.2386

Directions: OLD SALISBURY RD WEST ON LFT ON SR 1422 9 MI

LDFL Size (Acres):	30	Present Within 1000 ft of Ldfl			
Property Size (Acres):	75	Church	No	Residence On Ldfl?	No
Date Open:	1964	School	No	Potable Well Within 500 ft?	No
Date Closed:		Day Care	No	Adjoins Perennial SW?	No
		Residential	No		

Notes: D. LENDELL SMITH, JR. OPERATOR

(End Site Record)

Site Name:	AQUADALE DUMP	In IHS Inventory?	No
ID Number:	NONCD0000568	Other Agency Lead	
Site Address:	SR 1953	NFA or NFA-Restricted Use?	No
City:	AQUADALE	Unable to Locate	<input type="radio"/>
State Plane X:		Latitude:	35.2126
State Plane Y:		Longitude:	-80.2479
Directions: SR 1953, 2 MIS OF TOWN			

LDFL Size (Acres):	10	Present Within 1000 ft of Ldfl		
Property Size (Acres):	12	Church	No	Residence On Ldfl?
Date Open:	1955	School	No	Potable Well Within 500 ft?
Date Closed:	1972	Day Care	No	Adjoins Perennial SW?
		Residential	No	

Notes:

(End Site Record)

Site Name:	CITY OF ALBERMARLE DUMP	In IHS Inventory?	No
ID Number:	NONCD0000751	Other Agency Lead	
Site Address:	US 52 N	NFA or NFA-Restricted Use?	No
City:	ALBERMARLE	Unable to Locate	<input type="radio"/>
State Plane X:		Latitude:	
State Plane Y:		Longitude:	
Directions:	W SIDE OF US 52 N		

LDFL Size (Acres):	Present Within 1000 ft of Ldfl		
Property Size (Acres):	Church	No	Residence On Ldfl? No
Date Open:	School	No	Potable Well Within 500 ft? No
Date Closed:	Day Care	No	Adjoins Perennial SW? No
	Residential	No	

Notes: FROM TERRY DOVER LIST

(End Site Record)

Site Name:	NORWOOD DUMP	In IHS Inventory?	No
ID Number:	NONCD0000570	Other Agency Lead	
Site Address:	HWY 52	NFA or NFA-Restricted Use?	No
City:	NORWOOD	Unable to Locate	<input type="radio"/>

State Plane X:	Latitude:	35.1939
State Plane Y:	Longitude:	-80.1038

Directions: HWY 52, 2 MI S OF TOWN

LDFL Size (Acres): 20 Property Size (Acres): 25 Date Open: 1958 Date Closed: 1972	Present Within 1000 ft of Ldfl			
	Church	No	Residence On Ldfl?	No
	School	No	Potable Well Within 500 ft?	No
	Day Care	No	Adjoins Perennial SW?	No
	Residential	No		

Notes: NICK PAGE OWNER IN 1973

(End Site Record)

Site Name:	OAKBORO DUMP	In IHS Inventory?	No
ID Number:	NONCD0000569	Other Agency Lead	
Site Address:	SR 1132	NFA or NFA-Restricted Use?	No
City:	OAKBORO	Unable to Locate	<input type="radio"/>

State Plane X:	Latitude:	35.2406
State Plane Y:	Longitude:	-80.3645

Directions: SR 1132, OFF SR 1115, S OF TOWN

LDFL Size (Acres):	15	Present Within 1000 ft of Ldfl		
Property Size (Acres):	20	Church	No	Residence On Ldfl? No
Date Open:	1958	School	No	Potable Well Within 500 ft? No
Date Closed:	1972	Day Care	No	Adjoins Perennial SW? No
		Residential	No	

Notes:

(End Site Record)

Site Name:	RICHFIELD DUMP	In IHS Inventory?	No
ID Number:	NONCD0000566	Other Agency Lead	
Site Address:		NFA or NFA-Restricted Use?	No
City:	RICHFIELD	Unable to Locate	<input type="radio"/>

State Plane X:	Latitude:	35.4614
State Plane Y:	Longitude:	-80.2713

Directions: 1/2 MI W OF HWY 52 & 1/4 MI S OF HWY 49

LDFL Size (Acres):	2	Present Within 1000 ft of Ldfl			
Property Size (Acres):	3	Church	No	Residence On Ldfl?	No
Date Open:	1952	School	No	Potable Well Within 500 ft?	No
Date Closed:	1973	Day Care	No	Adjoins Perennial SW?	No
		Residential	No		

Notes:

(End Site Record)

Site Name:	STANFIELD DUMP	In IHS Inventory?	No
ID Number:	NONCD0000567	Other Agency Lead	
Site Address:	SR 1147	NFA or NFA-Restricted Use?	No
City:	STANFIELD	Unable to Locate	<input type="radio"/>

State Plane X:	Latitude:	35.2173
State Plane Y:	Longitude:	-80.4564

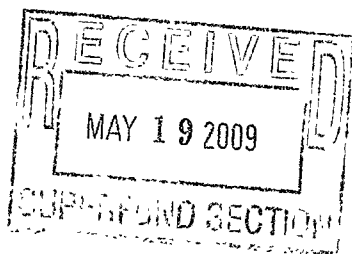
Directions: TAKE SR 1001 W OF TOWN, RT ON SR 1147

LDFL Size (Acres):	4	Present Within 1000 ft of Ldfl			
Property Size (Acres):	5	Church	No	Residence On Ldfl?	No
Date Open:	1965	School	No	Potable Well Within 500 ft?	No
Date Closed:	1972	Day Care	No	Adjoins Perennial SW?	No
		Residential	No		

Notes:

(End Site Record)

Number of Sites: 7 (End County Record)



GROUND WATER DIVISION
OFFICE OF WATER AND AIR RESOURCES
DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES

STP 011

35 24 10

80 07 20

RECORD OF GROUND WATER POLLUTION SOURCE

RECORD BY: Michael S. Marsh DATE 8/21/75 W.D. PERMIT NO. _____TOWN: Badin COUNTY: StanlyLOCATION (SKETCH ON BACK): 0.2 mi W of Hwy 740 - S side of 1586OWNER(S) OF FACILITY OR INSTALLATION: Town of BadinTYPE SOURCE: (LAND FILL, LAGOON, ETC) closed landfillCHARACTER AND QUANTITY OF POLLUTANTS: solid wasteDESCRIPTION OF FACILITY (SKETCH ON BACK): Ravine that was filled and covered,
size unknown.HYDROGEOLOGIC CONDITIONS AT SITE: Clay saprolite, argillite or metavolcanic
bedrock. Depth to bedrock about 20 feet. Depth to water ⁺ 15 feet.POLLUTION CONFIRMED BY ANALYSIS? no DATE _____ ANALYST: _____MONITORING FACILITIES INSTALLED: noSAMPLING SCHEDULE: noneNEAREST STREAM: Little Mountain Creek DISTANCE 0.25 miNEAREST WATER SUPPLY WELL: none noted DISTANCE 1000 feet

ANALYSES AND OTHER DATA AVAILABLE: _____

REMARKS: A former landfill worker told me that it used to be a natural "canyon"
before it was filled in.

Badin
City Limits

Badin
Lake



1719

Alcoa
Aluminum

Landfill
site

Aeration
Basin

Marked by Little River
Creek

Badin
City Limits

240

.25 mi

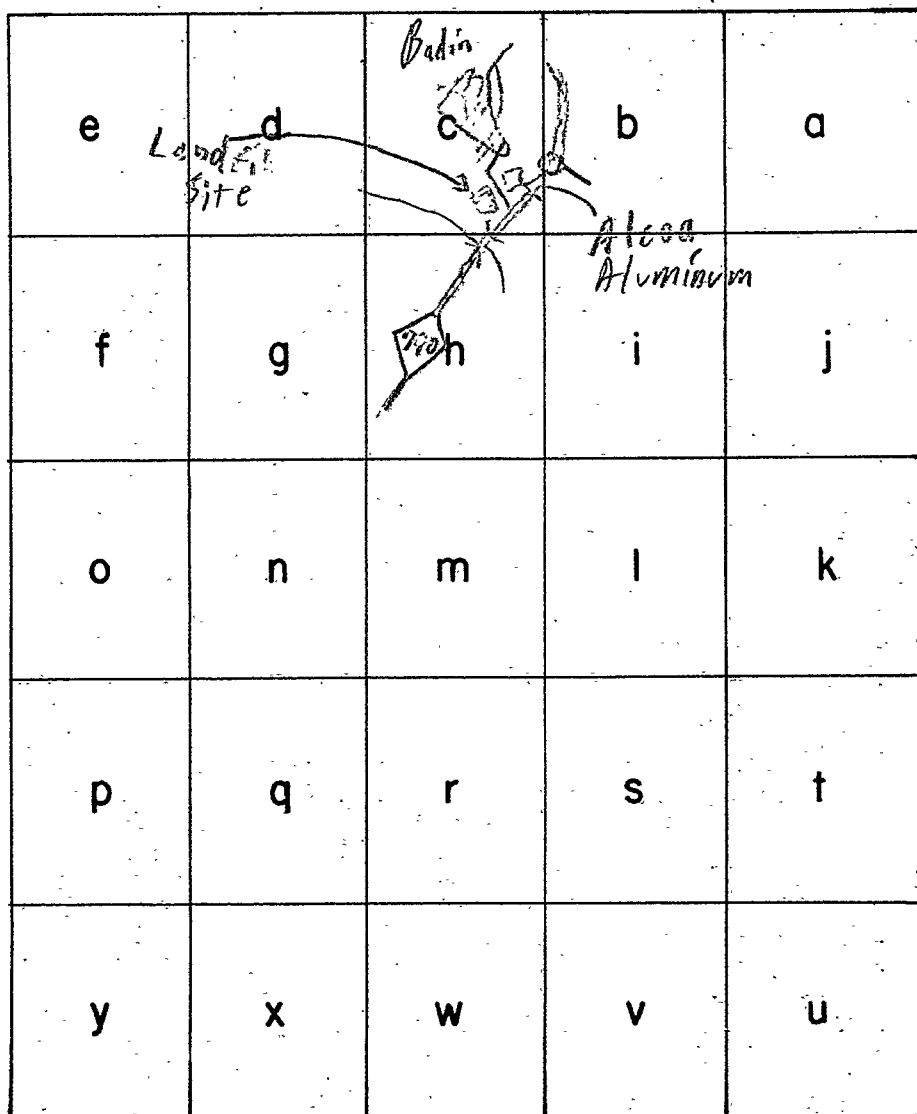
.2 mi

Badland fill (closed)

County: Stanly

Quadrangle No. P57c

Type data: Pollution source



Grid for Scale 1"=1 mile



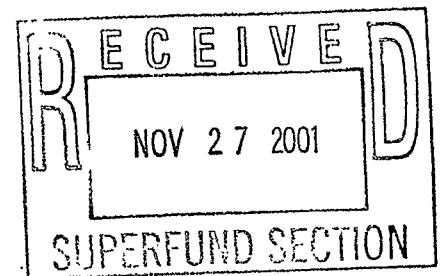
September 6, 2001

North Carolina Department of Transportation
Geotechnical Unit/GeoEnvironmental Section
1020 Birch Ridge Drive
Raleigh, NC 27611

GEOTECHNICAL [SEP 06 2001]

Attention: Mr. Greg Smith, L.G.
GeoEnvironmental Supervisor

Reference: **Debris Pile Relocation Project**
Debris Pile - Slope of NC Highway 24/27
State Project: 8.T680303 (R-2530 AB)
Stanly County, North Carolina
S&ME Project No. 1040-01-476



Dear Mr. Smith:

S&ME, Inc. (S&ME) is pleased to provide the North Carolina Department of Transportation (NCDOT) with the following report for the relocation of a debris pile located in Albemarle, North Carolina. In accordance with the NCDOT Notice to Proceed dated July 12, 2001, S&ME acted as the on-site consultant and monitored field activities. The services were provided in accordance with S&ME's Technical and Cost Proposal (i.e., S&ME Proposal No. P2211-01V) dated July 10, 2001.

PROJECT INFORMATION

The referenced project is located along North Carolina Highway 24/27 in Albemarle, Stanly County, North Carolina. A vicinity map of the site is included in Figure 1. During slope construction of North Carolina Highway 24/27 in Albemarle, North Carolina, the NCDOT construction contractor

S&ME, Inc.
3118 Spring Forest Road
Raleigh, North Carolina 27616

Mailing address:
P.O. Box 58069
Raleigh, North Carolina 27658-8069

(919) 872-2660
(919) 790-9827 fax
www.smeinc.com

encountered buried debris. The debris included tires, roofing and flooring materials, shingles, and other miscellaneous debris. A previous survey of the debris by S&ME in April 2001 concluded that some of the materials in the debris pile contained asbestos. Specifically, flooring material was found to contain 35% chrysotile asbestos and cement siding shingles were found to contain 20% chrysotile asbestos. A quantity of the asbestos containing material (ACM) could not be estimated because the ACM was buried within the debris pile. Photographs of the debris pile are included in Appendix I.

Typically ACM is disposed in a sanitary landfill that is approved to accept asbestos. It is our understanding that Mr. Cyrus Parker with the NCDOT spoke with Ms. Pat Wiley of the North Carolina Health Hazards Control Unit and received permission to relocate the ACM debris onto the NCDOT right-of-way property. Ms. Wiley told Mr. Parker that the abatement would be considered non-friable removal and that an accredited asbestos abatement contractor would not be needed. However, proper work procedures would need to be followed, such as keeping the materials wet throughout the operation and covered with fill material once it was relocated. Moving the debris pile is considered Class II asbestos abatement work under the OSHA regulations (29 CFR 1926.1101). Therefore, a "competent person" was required to be on-site at all times during the asbestos work. Asbestos air monitoring was not required for this project since non-friable removal techniques were employed.

S&ME contracted Soil Solutions Inc., (Soil Solutions) to relocate the debris pile, including the ACM, from the south slope of an access road to the north slope of the access road. The NCDOT requested that Soil Solutions segregate and dispose the tires off-site. Soil Solutions subcontracted with Mr. Juan Escobar of Asbestos Control Technologies (ACT) to be the OSHA required "competent person" at the site. A site map is included in Figure 2.

PROJECT SUMMARY

S&ME, ACT, and Soil Solutions personnel arrived at the site on July 11, 2001. To avoid confusion, S&ME personnel requested that Mr. Louis Mitchell, NCDOT Resident Engineer, flag the area of the debris to be moved. The area of material marked by Mr. Mitchell was slightly less than the area indicated on the field drawings supplied by Mr. Cyrus Parker.

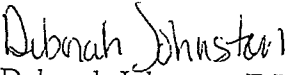
The tires were removed from the debris pile and loaded into a truck for off-site disposal. As the debris was relocated from the south slope to the north slope, the ACM was kept wet as per OSHA procedures to reduce the potential for asbestos fibers to become airborne. S&ME personnel noted that only a small percentage of the debris appeared to be ACM. After all of the ACM was relocated to the north slope, Soil Solutions covered both areas with approximately 24 inches of NCDOT-supplied fill material. A copy of S&ME's field notes are included in Appendix II.


CLOSING

As requested by the North Carolina Health Hazards Control Unit, the NCDOT should survey the relocated debris and note its location on the final project drawings. We appreciate the opportunity to work with NCDOT on this project and look forward to continuing our working relationship.

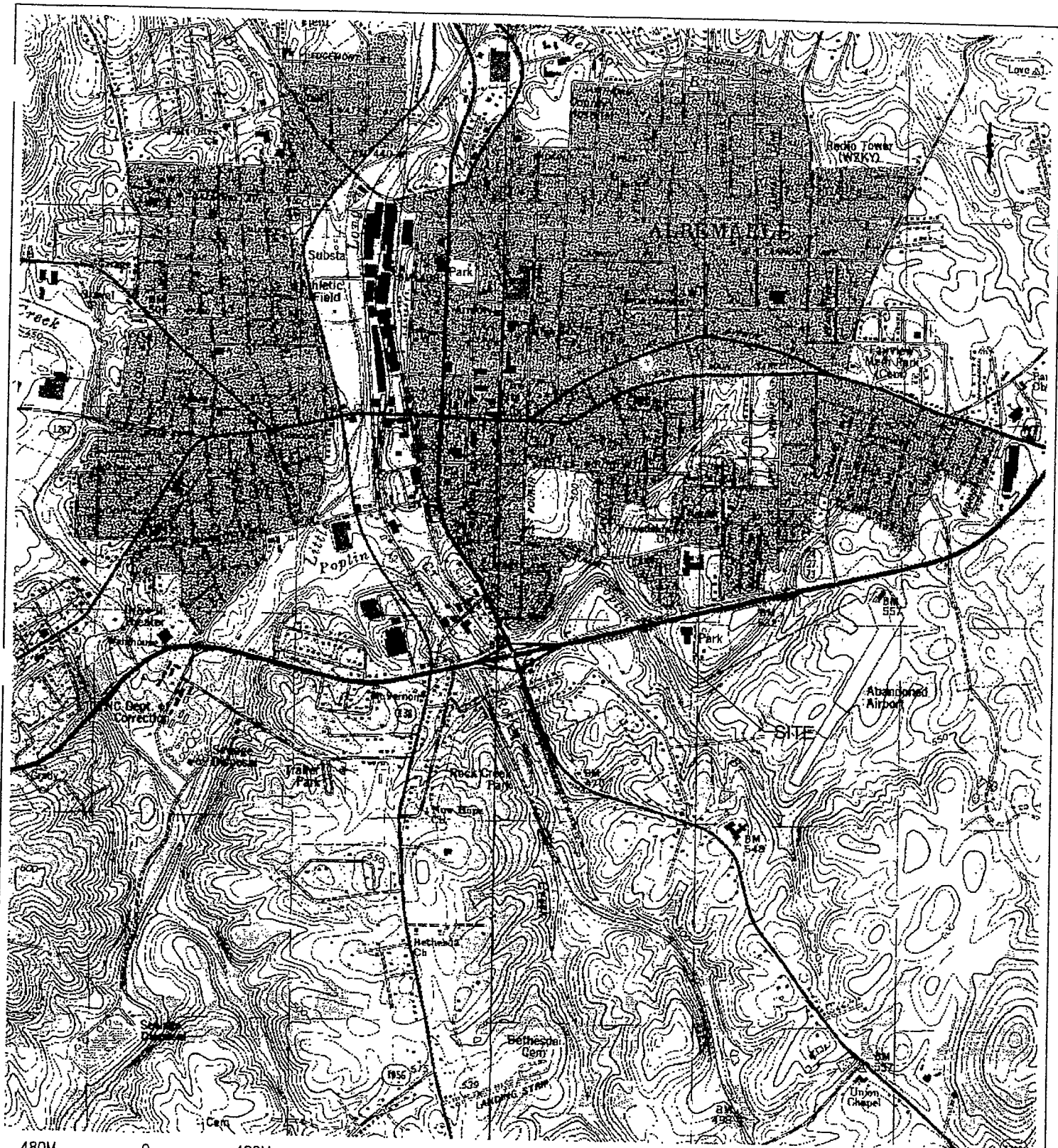
Sincerely,

S&ME, Inc.


Deborah Johnston, E.I.
Staff Professional


Matt Einsmann, P.E. 9/6/01
Environmental Engineering Manager

FIGURES



480M 0 480M
GRAPHIC SCALE IN METERS

VICINITY MAP

NCDOT ALBEMARLE ASBESTOS REMOVAL
ALBEMARLE, NORTH CAROLINA

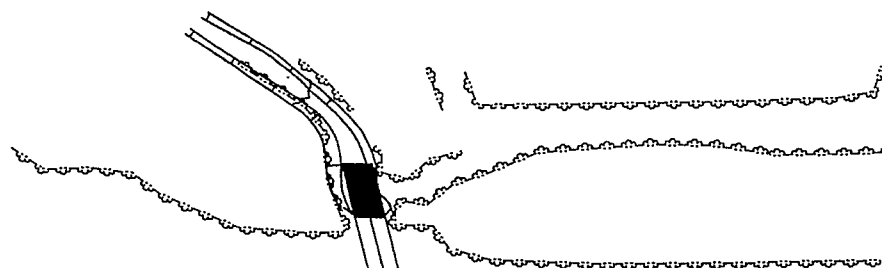


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Scale: 1 cm = 240 m

Fig No. 1



NC HIGHWAY 24/27



ACCESS ROAD

NC HIGHWAY 24/27

TREELINE



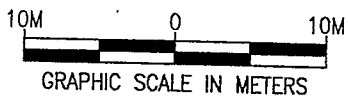
ACM REMOVED



FINAL LOCATION OF
ACM



POPLIN BRANCH



NOTES:

1. FIGURE WAS ADAPTED FROM NCDOT PLAN SHEET NO.8
2. ACM AREAS ARE NOT DRAWN TO SCALE BUT ARE BASED ON INFORMATION GIVEN TO S&ME BY NCDOT.

ACM LOCATION MAP

NCDOT ALBEMARLE ASBESTOS REMOVAL
ALBEMARLE, NORTH CAROLINA



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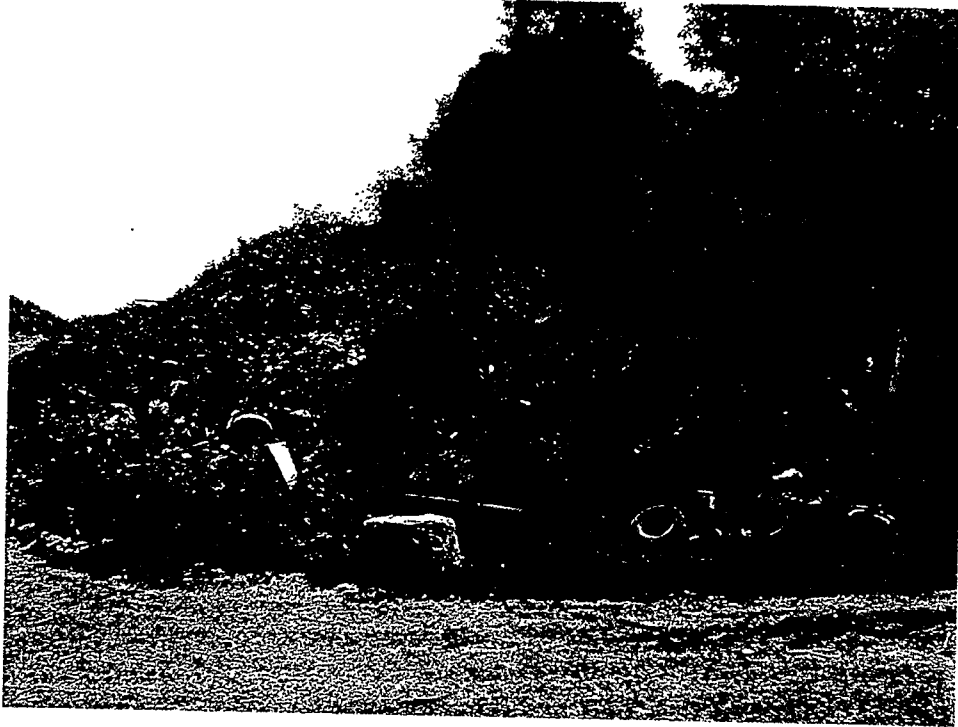
Scale: 1CM = 5M

Fig No. 2

APPENDIX I

PHOTOGRAPH RECORD

S&ME Project Number: 1040-01-476 Project Name: Asbestos Relocation Project
Site Location: South Slope of NC Highway 24/27 in Albemarle, NC.



Photograph No. #1: Photograph of the debris pile along the south slope of the access road.



Photograph No. #2: A closer view of the debris pile. Tires and roofing materials are visible.

APPENDIX II

7/11/01

- 1100 - Arrive at site. Juan Escobar with Asbestos Control Technologies (ACT) and the Soil Solutions crew are at the site. The area containing the asbestos containing debris has been identified. The ACM will be relocated from its present location and placed on the south facing slope below hwy 24/27.
- 1130 - Louis Mitchell, Resident Engineer with NCDOT indicates that he is unaware of this plan and wants to either move the material off-site, or cover it in place. Jay King ^{w/soil solutions} arrives onsite.
- 1200 - Mr. Mitchell indicates that he agrees with the plan to move the ACM to the slope to be covered. He also indicates a specific area, slightly smaller than what is shown on the drawing. The writer asks that he flag the area to indicate specifically what he ^(Mr. Mitchell) wants moved. This is done. Mr. Mitchell ~~instructs Soil Solutions~~ states that none of the tires in the debris are to be put on the slope. They are all to be taken off site and disposed of.
- 1230 - Lunch
- 1330 - Soil Solutions begins removing the tires from the debris pile.
- 1430 - Soil Solutions begins removing the ACM containing debris and placing it on the south slope of 24/27. The material is

being wetted before it is moved to the south slope.

1515- The excavator being used to move the ACM has stopped running.

1545- Repeated attempts at re-starting the excavator are futile. The machine is moved out of the way. The track loader at the site is used to place soil over the material that has been placed on the slope. The writer and Jay King go to the other side of the road to try and locate a tank that was on the right of way but was thought to be re-located by recent rainstorms.

1615- The tank has been ~~re~~located. It is in the stream approximately 200 meters from its original position.

1645- Soil Solutions has contacted the rental company and informed them of the repair that is needed on the excavator.

1700- Left site.

Bd B 

7/12/01

- 0800 - Arrive at site. Soil Solutions crew arrives
0810. The excavator has been repaired.
- 0830 - Juan Escobar arrives at the site. Soil
Solutions begins moving the debris from
the area flagged by Louis Mitchell w/ NCDOT
to the area indicated by Mr. Mitchell. The
material is being kept wet as it is being
relocated.
- 0930 - Soil Solutions continues to move the debris.
A small percentage of the debris contains
the ACM identified previously.
- 1100 - Soil Solutions has relocated all of the debris
in the area flagged by Mr. Mitchell w/ NCDOT.
- 1130 - Backfill material is being brought in.
The backfill material (fill dirt) is being
placed on top of the relocated debris.
- 1400 - Soil Solutions is "dressing" the areas
covered with fill dirt.
- 1600 - Soil Solutions has completed covering the
relocated debris, backfilling the area that
the debris was moved from and has dressed
both of the areas.
- 1630 - Left site.

Bob Bragg